PRODUCT INFORMATION Affinity Purified Antibodies and Their Conjugates

EY Laboratories' AF series antibodies are prepared from antisera by using affinity chromatography. The finished products may contain a low percentage of denatured protein due to unfavorable conditions during elution of the antibodies from the affinity column. Some cross reactivity studies have been done, contact Technical Service to request specific information.

Affinity purified antibodies and their conjugates are specifically prepared for laboratories who are involved with basic or diagnostic research. Purified antibodies give the highest possible ratio of the conjugate/antibody. This is an important factor for quantitative analysis of antigens. EY Laboratories' conjugated antibodies are designed for use in immunodiffusion, immunoelectrophoresis, fluorescent microscopy, light and electron microscopy.

The technology used in preparing the antigen specific and affinity purified antibody minimizes interference from other complex forming components in the antisera. Bovine serum albumin is used to coat vials containing affinity purified antibodies or their conjugates. This is to prevent loss of the antibody through adherence to the glass surface.

Catalog Number: BAF-446-1

Description: Biotin Conjugated Goat Affinity Purified Antibody to Mouse IgA, 1mL

Lot Number:

Expiration Date: 1 year from date of manufacture

Protein

Caution:

Concentration: (Based on OD280)

Chemical Used for

Conjugation:

Biotin (where applicable)

Buffer: 0.01M Phosphate - 0.15M NaCl, pH 7.2-7.4. 0.05% sodium azide is added

as a preservative EXCEPT for peroxidase conjugates and alkaline

phosphatase conjugates.

Storage: Store liquid frozen in aliquots EXCEPT for Ferritin and Alkaline

Phosphatase conjugates which must be refrigerated, not frozen. Alkaline

Phosphatase conjugates contain up to 50% glycerol.

Stability: The liquid material is stable for several years when stored in aliquots with

0.05% sodium azide added as a preservative.

NOTE: DO NOT add sodium azide to peroxidase conjugates.

Usage: Dilute 1% BSA in PBS at least 100 x before use.

Refer to the enclosed MSDS for information regarding affinity purified antibodies and their conjugates. The aluminum seals have sharp edges and the vial itself may have cracks which can cause lacerations. Use caution when opening the vial.

For Research and Laboratory Use Only.

LY LABORATORIES, INC.

107 North Amphlett Blvd. San Mateo, CA 94401

Tel: 650-342-3296 Fax: 650-342-2648 Orders: 1-800-821-0044 (Outside CA only)

General Procedure

The following is a general Procedure and Trouble-Shooting Guide. The information is provided only for your convenience. The success of your experiments are not guaranteed by EY Laboratories, Inc.

- Wash and block tissue section or blot, EY Laboratories, Inc. recommends that 1% purified Bovine Serum Albumin (BSA) or defatted milk powder be used for blocking to prevent nonspecific binding. Do not use serum products, they contain glycoproteins which may lead to high levels of non specific background. After blocking, rinse briefly with recommended Buffer.
- Dilute Biotin Labeled Antibody to a concentration of 5-50 µg/ml using recommended Buffer. Incubate section or blot for 30-90 minutes at room temperature in a moist chamber. Slightly longer incubation times may be required if incubation is done at 2-8°C. Rinse 3 times, 5 minutes each time with recommended Buffer.
- Dilute and incubate Avidin Conjugate according to manufacturer directions.

Notes: Inhibition of antibody binding may be accomplished by using one of two procedures:

- A. Before proceeding to Step #3 incubate antibody treated section or blot with inhibitory carbohydrate for 30-60 minutes at room temperature. NOTE: Complete inhibition may not
- Preincubate diluted Biotin Labeled Antibody with inhibitory carbohydrate for 30-60 minutes at room temperature before applying to section or blot.

TROUBLE SHOOTING GUIDE

Problem	Cause	Solution
Weak or no Staining	Low concentration of antibody conjugate. Low concentration of avidin conjugate. Insufficient incubation time.	Causes #1 - #3 a. Increase incubation time. b. Increase concentration of sample (on blot) antibody conjugate and/or avidin conjugate.
	4. Inappropriate treatment of sample prior to labeling.	a. Treat section or blot with a different blocking reagent.
High Background	Antibody conjugate and/or avidin conjugate is too concentrated.	a. Decrease concentration of respective reagents. b. Shorten incubation times.
	2. Insufficient washing.	a. Perform multiple washings and prolong washing time.
	3. Insufficient blocking.	a. Treat section or blot with a different blocking reagent.
	4. Sample contains endogenous enzymatic activity.	a. Determine if sample contains activity which would give background staining in the absence of the avidin conjugate.
Unexpected Staining Pattern	Multiple causes	a. Perform control reactions. b. Use other cytochemical technique to prove or disprove the findings.



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MATERIAL SAFETY DATA SHEET

Effective Date: March 31, 2006 Revision 4 Page 1 of 2

PRODUCT IDENTIFICATION

Purified proteins or biotin labeled with Horseradish Peroxidase or Alkaline Name:

Phosphatase.

HP-02, BA-104, BA-105, BA-108, BA-109, H-1102 to H-9000, LA-1104 to LA-9000, Catalog

Number (s): PA-2100 to PA-2701, AA-2100 to AA-2701, HAF-001 to HAF-2354, AAF-001 to AAF-2354, HA-01 to HA-013, AA-01 to AA-013, HAL-1104 to HAL-4701, AAL-

1104 to AAL-4701.

Protein A, Avidin (egg white), Biotin, Lectins, Secondary Antibodies labeled with Synonyms:

Horseradish Peroxidase or Alkaline Phosphatase.

EMERGENCY INFORMATION

EY Laboratories, Inc. 107 North Amphlett Blvd. San Mateo, CA 94401

EMERGENCY PHONE: 650 342 3296

HAZARDOUS COMPONENTS

Specific protein(s) as listed on the vial label. Solutions are at a concentration generally greater than 0.5mg protein/ ml. Biological activity of these labeled proteins will vary. Horseradish Peroxidase and Alkaline Phosphatase are both potent enzymes which may be harmful if ingested, inhaled, or allowed to absorb through the skin. Both enzymes are known to cause allergic responses in sensitive individuals.

HEALTH HAZARD INFORMATION

EXPOSURE LIMITS: None established. The toxicological properties of these products have not

been thoroughly investigated. Care should be taken when handling any of

EFFECTS OF May causes localized eye, skin, or mucous membrane irritation. Some OVEREXPOSURE: sensitive individuals may develop a chronic allergic reaction with exposure.

ROUTES OF Inhalation of powders and skin contact with liquids are the primary routes **EXPOSURE:** of exposure. Care should be taken to avoid the formation of aerosols when

handling any of the solutions.

PHYSICAL CHARACTERISTICS

APPEARANCE: Powders are a light brown. Solutions will be light to dark brown.

SOLUBILITY: Powders are completely soluble in many biological buffers and water. All liquids are completely miscible in water and biological buffers.

FIRE AND EXPLOSION HAZARDS

EXTINGUISHING MEDIA: SPECIAL FIRE FIGHTING PRECAUTIONS:

NOTE:

Not considered to be a fire hazard.

Water spray or CO2. None required.

Alkaline Phosphatase conjugates contain less than 0.05% sodium azide as a preservative. Azide may react with lead and copper plumbing to form explosive metal azides. Flush with copious amounts of water when disposing material in the sink.

LABORATORIES, INC.
107 North Amphlett Blvd.
San Mateo, CA 94401 Tel: 650-342-3296 Fax: 650-342-2648 Orders: 1-800-821-0044 (Outside CA only) MSDS for Horseradish or Alkaline Phosphatase Labeled Proteins & Biotin Continued - page 2 of 2.

REACTIVITY DATA

Stable. The nature of any decomposition products are not STABILITY:

known. They are not believed to be hazardous.

HAZARDOUS POLYMERIZATION: Will NOT occur.

INCOMPATIBILITY. None known. (Lead and copper may react with sodium azide).

SPILL / LEAK PROCEDURES

MATERIAL RELEASE / Avoid contact with powder or liquid. Clean up spill with a paper towel

SPILL:

soaked in household bleach. Do not allow solutions to dry on environmental surfaces. Wash affected area with detergent after the area

has been treated with bleach.

WASTE DISPOSAL: Incinerate, autoclave, or dispose of paper waste in accordance with all

> Local, State, and Federal regulations. Due to the small quantities of material involved these products are generally not considered to be environmental hazards. All of these proteins are fully biodegradable.

EMERGENCY FIRST AID PROCEDURES

May be harmful if swallowed, inhaled, or allowed to absorb through the skin. Wash contacted area with water for 15 minutes. If inhaled remove to fresh air. Report exposure to the appropriate safety official. Consult a physician if irritation occurs or if there is any indication of an allergic response, such as watering eyes, sneezing, or difficulty breathing. Any eye contact should be reported to a physician immediately

SPECIAL HANDLING PRECAUTIONS

VENTILATION: No special ventilation is required but it is recommended to handle these reagents in a fume

hood when possible.

EYE PROTECTION: Required. Goggles or safety glasses with a side shield

are recommended.

RESPIRATORY PROTECTION: Recommended as a safety precaution, specifically

> when working with powders. An approved respirator may be required for those individuals already known

to be sensitive to these materials.

PROTECTIVE GLOVES: Required when handling any of these materials.

SPECIAL PRECAUTIONS

This material is for research and experimental application only. It is not intended for food, drug, household, agricultural, or cosmetic use. All materials should be handled only by technically qualified individuals experienced with working with potentially hazardous chemicals. The above information is correct to the best of our knowledge. The user should make independent decisions regarding completeness of the information, based on all sources available. EY Laboratories, Inc. shall not be held liable for any damage resulting from handling or contact with the above product.



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